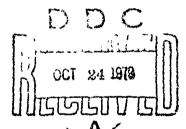
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REPORT ON TECHNICAL ADVISORY SERVICES,

Fiscal Year 1964/

by J.C. Rupe



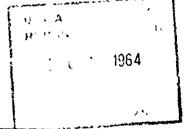
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REPORT ON TECHNICAL ADVISORY SERVICES.

Fiscal Year 1964

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The George Washington University
HUMAN RESOURCES RESEARCH OFFICE
operating under contract with
THE DEPARTMENT OF THE ARMY

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The contents of this publication do not necessarily represent the official opinion or policy of the Department of the Army.

Published October 1964 by ge Weshington Un

The George Weshington University
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INTRODUCTION

The HumRRO annual report of Technical Advisory Services (TAS) is published to provide the reader with information about the scope, variety, significance, and extent of the services and to serve HumRRO and appropriate Army agencies as a basis for future program planning and budgeting.

TAS is an information-providing activity usually initiated in response to a consumer request occurring under either of the following conditions:

- (1) If a reliable basis for providing the information exists within the body of relevant knowledge.
- (2) If only trend information exists, but the time available to either the responding research group or the potential user does not permit initiation of research.

TAS information is provided to the requester by oral report, memorandum, or Consulting Report, depending upon the anticipated breadth of interest and/or the amount of effort expended.

Assistance given in the implementation of HumRRO recommendations from a specific research effort comes under (1) above. It has been reported as TAS in the Tables that follow, even though it was started under a research Task while that Task was active. Services based on a Task are frequently given while it is still active. Sometimes experience gained during the research is immediately relevant to current operational problems. Often research by -products are also found extremely useful when applied to current problems. For example, job performance tests, prepared to test the efficacy of experimental training, have been found more generally useful. Of course, completed Tasks may continue to serve as a basis for providing TAS when needed.

TAS is also given in areas not related to a specific Task. Such TAS may fall under either condition (1) or condition (2) above. It is based upon the competence of HumRRO professional personnel. This competence may be in a special area and limited to specific individuals, or it may be more general, gained as a result of the training and experience required to achieve professional status. Many of the activities reported here are consultations of this nature.

Technical Advisory Services for Fiscal Year 1964

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In the Office of the Director, TAS is almost continuous. There are frequent visitors from the other United States military services and the Allied military, seeking specific information. Many requests are received each month for publications, for research findings in specific areas related to the HumRRO mission, and for professional assistance over a broad spectrum.

The Director of HumRRO maintains a representative at Headquarters, United States Continental Army Command (USCONARC). This representative and his assistant provided liaison on HumRRO matters and consultation on training problems and performed special projects. The following are representative of the TAS activities performed at Headquarters, USCONARC during FY 1964:

- (1) Statistical analysis of a comparison between six- and eight-week basic combat training programs.
- (2) Preparation of guidance on the conduct of tests of the effectiveness of Army training programs.
- (3) Consultation with the Airborne Department of the Quartermaster School on Parachute Rigger training.
- (4) Development of training objectives for training cooks.
- (5) Preparation of suggested revisions to a DA pamphlet on programed instruction based on reviews made by all elements of HumRRO.
- (6) Review of Army MOS Subject Schedules 5-120, "Pioneer and Construction Helper"; 10-546, "Laundry, Bath, and Impregnation Specialist," MOS 546.1; 6-153, "Field Artillery Surveyor," MOS 153.0; and 5-626, "Construction Machine Operator."

One major TAS activity began during this period, after the issuance of the "Report on Recruit Training" by the then Undersecretary of the Army, Stephen Ailes, on 26 December 1963. As a consequence of the decision to implement the recommendations of that report, HumRRO was requested by Headquarters, USCONARC, to assist in preparing plans, documents, and programs. The Training Center Human Research Unit (TCHRU) was called upon for major support because of the relevance of Tasks TRANSITION, RIFLEMAN, and NCO. However, much past and current research by other research groups was also relevant, and personnel from these other groups and the Director's Office were also involved.

From the beginning of February until the end of March, 44 professional man-days had been expended on this effort. As noted in Table 3, Drs. Hood, Ward, Caylor, and Bialek of TCHRU were involved in the early planning and outlining of the attack upon the problem. Beginning 23 March, Dr. Hood, TCHRU, Dr. MacCaslin, Training Methods Division, Mr. Warnick and Mr. Gook, Armor Human Research Unit, and Mr. Hayes, Director's Office, spent 202 man-days in close cooperation with Army Training Center (ATC) experts at Fort Jackson, S.C. They assisted the USCONARC Trainer Preparation Project staff in developing detailed course objectives, programs of instruction, and evaluation techniques for officer and enlisted personnel scheduled for ATC trainer assignments. USCONARC administered these courses to the first class this summer, and Dr. Hood continues to assist in evaluation of the training, proposed modifications, and preparations for further applications.

Tabular presentations of the TAS activities of the HumRRO Divisions and Human Research Units follow, including estimates of the total amount of time expended.

TABULAR PRESENTATION OF TECHNICAL ADVISORY SERVICES BY HUMRRO DIVISIONS AND UNITS

1 July 1963 - 30 June 1964

Tables 1-7

KEY TO ABBREVIATIONS IN TABLES

AIT	advanced individual training	POI	programs of instruction
AMC	Army Materiel Command	SDR	small device requirement
ARO	Army Research Office	20K	standing operating procedures
ATC	Army Training Center	SPW	special purpose infantry weapon
ATP	Army training center Army training program	TC	training circular
ATT	Army training program Army training test	TM	technical manual
BCT	basic combat training	TR	
• • •	Bureau of Personnel, U.S. Navy	USAADCEN	Technical Report
BuPers, USN		OSWARCEM	U.S. Army Air Defense Conter,
BUT CBR	basic unit training	UCA ADE	Fort Bliss, Tex.
CG	chemicul, biological, and radiological	USAADS	U.S. Army Air Defense School,
	Commanding General	IICA ADMIND	Fort Bliss, Tex,
COM: KNEAN!	Commander, Training Command,	USAARMBD	U.S. Army Armor Board,
0047774040	U.S. Atlantic Fleet	1164 4 5440	Fort Knox, Ky.
COMTRAPAC	Commander, Training Command,	USAARMC	U.S. Army Armor Center, Fort Knox, Ky.
000	U.S. Pacific Fleet	USAARMS	U.S. Army Armor School, Fort Knox, Ky.
CRD	Chief of Research and Development	USAAVNS	U.S. Army Aviation School, Fort
CRDL	Chemical Research and Development		Rucker, Ala,
	Laboratories, Edgewood, Md.	USAAVNTBD	U.S. Army Aviation Test Board,
DA	Department of the Army		Fort Rucker, Ala,
DCSIT	Deputy Chief of Staff for Individual	USABRIL	U.S. Amy Ballistics Research Labora-
	Training, USCONARC, Fort Monroe, Va.		tories, Aberdeen Proving Ground, Md.
DIA	Defense Intelligence Agency,	USACAGAR	U.S. Army Combat Developments
•••	U.S. Army Element		Command, Armor Agency, Fort Knox, Ky.
DLI	Defense Language Institute	USACDC	U.S. Army Combat Developments Command
DLI, WCB	Defense Language Institute, West Coast	USACDCAVNA	U.S. Army Combat Developments Command,
***	Branch, Presidio of Monterey, Calif.		Aviation Agency, Fort Rucker, Ala.
000	Department of Defense	USACDCIA	U.S. Army Combat Developments Command,
DOI	Director of Instruction		Infantry Agency, Fort Benning, Ga.
ES	Exploratory Study	USACDCTA	U.S. Army Combet Developments Command,
ETST	engineer task service test		Transportation Agency, Fort Eustis, Va.
HEL	Human Engineering Laboratories,	USACGSC	U.S. Army Command and General Staff
	Aberdeen Proving Ground, Md.		College, Fort Leavenworth, Kan.
HFORD	Human Factors and Operations	USAIC	U.S. Army Infantry Center, Fort
	Research Division		Benning, Ga.
IHRU	Infantry Human Research Unit,	ZIAZIJ	U.S. Army Infantry School, Fort
	Fort Benning, Ga.		Benning, Ga.
LOH	light observation helicopter	USAMRL	U.S. Army Medical Research Laboratory,
MAG	military assistance advisory group		Fort Knox, Ky.
MOS	military occupational specialty	USAREUR	United States Army, Europe
NCO	noncommissioned officer	USASESCS	U.S. Army Southeastern Signal School,
NTDC	Naval Training Devices Center,		Fort Gordon, Ga.
	Port Washington, N.Y.	USATC	U.S. Army Training Center
OCRD	Office of the Chief of Research	USATSCH	U.S. Army Transportation School,
	and Development		Fort Eustis, Va.
OCRD-CRD/R	Office of the Chief of Research	USCONARC	U.S. Continental Army Command,
	and Development, Communications		Fort Monroe, Va.
	Electronics Division	USMA	United States Military Academy,
Pi	programed instruction		West Point, N.Y.

Toble 1 Training Methods Division

Task or Activity	Nature of TAS	Requestion Agency	Date	Advisory Personnel	Time Expended (days)
REPAIR*	Participated in conference on feasibility of consolidating training for MOSa 311, 312, and 313 (Infantry, Armor, Artillery Communications Specialist Training).	Military Personnel Management, USCONARC	Jul 63	Dr. Vineberg	1
FORECAST**	Assisted U.S. Navy in the application of FORECAST principles and techniques to LORAN training through training of Navy techni- cians and preparation of course materials.	COMTRALANT, U.S. Navy	Jul 63- Jun 64	Dr. Shriver Mr. Trexler Mr. Lodge	196
FORECAST**	Commitation for the improvement of the FORECAST-LORAN course as presented by Navy at the Fleet Training Center, San Diego.	COMTRAPAC, U.S. Navy	Dec 63	Dr. Shriver Mr. Trexler	10
JOBTRAIN IV**	Continuing from FY 63. Development of a field test of a method for building training programs for first enlistment electronics maintenence MOSs that will permit substantial reduction in formal schooling without decrease in performance capabilities.	USASESCS	Jul- Aug 63	Mr. Gebhard Mr. Lodge	35
Not Task- Related	Prepared comments on "The Value of LOGEX as an Applicatory Exer- cise for Career Course Officer Students," paper by Col. T.E. Shaughness	USCONARC y.	Aug 63	Dr. Fink	4
Not Task- Related	Conducted a briefing on programed instruction for visitors from Allied military.	Royal Canadian Air Force and Australian Army(Continued)	Oct 63	Dr. Vineberg Dr. Seidel	2

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^{*}Completed Tank.
**Tank not in FY 64 Work Program.

Table 1 (Continued)
Training Methods Division

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Evaluated questionnaire data and planned reporting model for a maintenance manpower study.	USACDCTA	Oct 63- Jun 64	Dr. MacCaslin	3.5
Not Task- Related	Evaluated vehicle simulators. Attended USCONARC meeting to discuss trainer evaluation proposal.	DCSIT, USCONARC; USATSCH	Nov 63- Jun 64 (Con- tinuing as ES)	Dr. McKnight Mr. Hunter Dr. deHaan	123
Not Task- Related	Prepared report on an analysis of classified problem dealing with man-packed jungle radios.	OCRD-CRD/R	Dec 63- Jan 64	Dr. Lyons Dr. Fink	19
Not Task- Related	Prepared interim Con- sulting Report, "Human Factors in Tactical Nuclear Combat"; classified project.	USACDC	Dec 63- Jun 64	Dr. Vineberg Mr. Montague Miss Bloxom	213
Not Task- Related	Reviewed draft DA pamphlet on PL	HFORD	jan 64	Dr. Seidel	1
FORECAST**	Applied FORECAST principles to Navy MK-44 Torpedo System. Project proposal submitted in March; approved work to begin FY 65.	BuPers, USN	Mar 64	Dr. Shriver	3
Not Tank- Related	Developed procedures for handling "student load" problems.	DLI	May- Jun 64	Dr. Fink	16.5
Not Task- Related	Developed training program for cadre duty in ATCs.	USCONARC	Mar- May 64	Dr. MacCaslin	54
Not Task- Related	Reviewed MOS subject schedule, "Light and Heavy Vehicle Operator."	USCONARC	Jun 64	Dr. McKnight	1
Both Task- Related and Not Task- Related	Conducted consultations (15 of one-half day or less), human factors evaluations, and assist- ance on various training problems.	OCRD, USCONARG	Jul 63- Jun 64	Dr. Lyons et al.	10

^{**}Task not in FY 04 Work Program.

Toble 2
Armor Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
ARMOR- NITE X**	Continued work on field test of gunner proficiency in flush localization with an experimental reticle (conducted jointly by Armor Unit and Armor School). Conducted further data analysis, and submitted a report of the work.		Aug 63- Mar 64	Dr. Easley Dr. Willard Mr. Battrick	70
Not Task- Related	Assisted in preparation of an aptitude tent battery to classify Armor School atudents by aptitude level for instruction in nuclear tactics and employment.	Command and Staff Dept USAARMS	Mar 64	Dr. Baker	1
Not Task- Related (Miniaturiza- tion and Simu- lation)	Visited 17 installations in Seventh Army, to discuss problems involved in planning a study of means to overcome existing limitations to training in USAREUR. Prepared report of problems and suggested solutions for use of military and research personnel concerned.		Feb 64	Dr. Baker	23
Not Task- Related	Provided representative from CRDL with tech- nical advice on the design and conduct of studies of effects of CBR agents on performance.	CRDL -(Continued)	Jan 64	Mr. Cook	2

^{**}Task sot in FY 64 Work Program.

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Table 2 (Continued)

Armor Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Tank- Reinted	Administered an equipment serviceability criterion, which involved planning the conduct of the test, coordination, administering two forms of the test (truck and tank), and writing a Consulting Report on the results and effectiveness of the test.	U.S. Army Maintenance Bd., Fort Knox, Ky.	Sep- Oct 63	Dr. J.P. Smith Dr. Cannon Mr. Warnick Mr. Pickett	78
Not Tank- Related	Reviewed proposed equipment test for the new battlefield day. Submitted summary of work in a letter report.	USAARMBD	Nov 63	Dr. Haggard	3
Not Tank- Related	Provided assistance for representatives from Redstone Arsenal on the design of evaluation studies for helicopter missile sighting systems.		Aug 63	Dr. Haggard	2
Not Task- Related	Conferred with repre- sentative from Frank- ford Arsenal on gunnery requirements in armor vehicles.	Frankford Armenal, Philadelphia, Pa.		Dr. Haggard	4
Not Task- Related	Prepared and presented briefing on a proposed human factors program for the new main battle tank as a result of a meeting on the plan for a survey of human engineering changes for concepts proposed for the main battle tank.	·•	Aug- Nov 63	Dr. Haggard Mr. Oaborn	21
No: Task- Related	Reviewed literature and current status of research on confinement and fatigue. Prepared and submitted a summary of the work as a Consulting Report.	USACAGAR	Aug 63- Jun 64 (Continu- ing as ES)	Dr. Cannon	120

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Table 2 (Continued)

Armor Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnal	Time Expended (days)
Not Task- Related	Provided Dunlap and Associates with data on SS-10 and on human factors variables involved in missile simulation.	HEL	Mar 64	Dr. Haggard	3
Not Tank- Related	Consulted on and reviewed a proposed manual of standard practice for human factors in vehicle fighting compartments.	HEL	Feb 64	Dr. Haggard Dr. E. Miller	3
Not Task- Related	Reviewed proposals resulting from USACAGAR's contract with the Ohio State University Research Foundation, and the contract research completed to date.	USACAGAR	Feb 64	Dr. Haggurd	2
Not Task- Related	Reviewed the automotive mechanic training program at the USA Ordnance School. Studied the feunibility of administering the performance proficiency tests developed during Task MOBILITY to recent Ordnance School graduates. Submitted report on the School program, with recommendations.	USCONARC	Feb 64	Dr. Willard Dr. Waltmore	12
Not Task- Related	Provided technical assistance in connec- tion with the Trainer Preparation Course, a program being developed at Fort Jackson for officers and NCOs who are to make up cadre for BCT.		Mar- May 64	Mr. Warnick Mr. Cook	42

Table 2 (Continued)

Armor Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
RECON	Provided technical assistance on how to build and use the Armored Cavalry Trainer for the lut Training Brigade, which has been using the terrain display system in teaching armor cavalry taction during armor AIT.	lut Training Brigade, USATC, Armor	Jan- Jun 64	Dr. Baker Mr. Warnick	5
Not Tank- Related	Gave technical advice on the implementation of the Miniature Armor Battlefield (MAB) for USAARMC personnel and representatives from NTDC.	USAARMC	Mar 64	Dr. Baker	2
Not Tank- Related	Provided technical information on problems of procurement end operation pertaining to the MAB.	G3, Seventh Army	Sep 63	Dr. Baker	2
NCO	Met with personnel of the NCO Academy. Fort Know to review program diffi- culties encountered in implementing Task NCO.	τ ,	Aug 63	Mr. Warnick	1
Not Tank- Related	Annisted in developing a test for use with the POI for the revised TM 38-750.	U.S. Army Maintenance Bd., Fort Knox, Ky.	Sep- Oct 63	Dr. Whitmore	15
Not Task- Related	Presented a briefing on extended operations at a conference held at USACAGAR with representatives from HEL and USAMRL, after completing considerable exploratory work.		Oct 63 (Continu- ing an future ES.)	Dr. Cannon	66
UNIT II*	Consulted on plans for implementing the Combat Decisions Game (CDG) for use by the Virginia National Guard.	Training Aide, Second United States Army	Jun 64	Dr. Baker Mr. Warnick	1

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*Completed Tank.

Table 2 (Continued)

Armor Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
UNIT II•	Provided technical advice for the implementation of MAB by evaluating an NTDC improvement in the basic design of the battlefield to make possible an expanded playing field.	NTDC	May 64	Dr. Willard Col. Davies Dr. Baker	3
Not Tank- Related	Evaluated an attitude questionnaire to be administered to subordinates in the G1 office, Fort Knox.	G1. USAARMC	May 64	Dr. Cannon	0.5
Not Tank- Related	Provided samples of forms or blanks to collect data on the training and experience of maintenance personnel for use in accounting for material deficiencies. Observed training sessions held for inspection teams.	U.S. Army Maintenance Bd., Fort Knox, Ky.	Jun 64	Dr. J.P. Smith	5
Not Task- Related	Conferred with repre- nentative from Picatinny Amenal on the Proposed Project BRIGHTEYE.		Jun 64	Dr. Willard Col. Davies Dr. Haggard Mr. Cook	2
Not Task- Related	Collected relevant reference material and designed training method to develop a substitute for Seventh Army's Tank Crew Qualification Course.	ARO; USCONARC	Apr- Jun 64 (Contin- uing an ES)	Dr. Baker Mr. Warnick	26

*Completed Tank.

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Table 2 (Continued)

Armor Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Began development of an SOP for use by the Army Maintenance Bd. in developing equipment service-ability criteria. Began preparation of Consulting Report. Developed procedures for formulating a set of requirements and for testing their adequacy as a model in deriving performance requirements in Tasks VE-TRAIN III and TRAINTECH (1965 Work Program).		Jan- Jun 64 (Conti- uing)	Dr. Whitmore Mr. Pickett	84
Not Task- Related	Heviewed literature on the problem of an infra- red night seeing device, and made inputs for the Phase I NITE OPS Study (USACDC); submitted a draft on probable effects on night operations of human factors problems that may arise through introduction of night vision devices, 1965-1970.	USACAGAR	Jan- May 64 (Contin- uing us ES)	Dv. Eauley	15
Not Task- Related	Completed studies on Shillelagh gunnery problems: (a) tracking proficiency, end of AIT, and after further training; (b) interference caused by obscuration, jump, and flare effects. Completed data analysis; submitted classified preliminary report on tracking proficiency.	USCONARC; AMC, Weapons Command	Sep 63- Jun 64	Dr. Haggard	139

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Toble 2 (Continued)

Armor Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advinory Personnel	Time Expended (days)
Not Tank- Related (Continued)	Other Unit work on the Shillelagh included: (a) measuring the simulator tracking proficiency of gunners who will fire the ETST, so as to relate the scores later to ETST performance; (b) Annor Center discussions on AIT training requirement to meet Shillelagh demands; (c) an in-process review (at NTIXC) of the Shillelagh weapon system trainer, including a Unit summary of the simulator studies; (d) a conference aponuously the Weapons Commandon modifications of the equipment testing prograsuggested by the Commans as a result of the Unit's simulator studies.	ed i			

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Table 3
Training Center Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Guest discussion leader for Leadership Seminsr.	USMA	Sep 6	Maj. Gen. Sebree (Ret.)	4
NCO	Furnished 2,000 copies of the NCO Guide for the Potential Noncom- missioned Officer, to be distributed to all men SP 4 and below.	11th Air Annault Division, Fort Benning, Gs.	1963		
NCO	Assisted in instituting NCO Preparation Course for the Boy Scouts of Monterey Peninsula, to be adopted aution-wide by the National Convention at Monterey (resulted in letter of appreciation from Chief Scout Executive, J.A. Brunton, Jr., to Sec. McNamara and from CRD, Lt. Gen. Dick)		1963	Dr. Hood	Largely off-duty
NCO	Furnished information on the NCO Automated Program together with complete scripts to be used in Navy training.	Dept. of Navy	1963		2
RIFLEMAN IV	Participated in confer- once to develop training plans for the new MOS 112 and 114 and to dis- cuss revised AIT program	USCONARC	Jan 64	Dr. Ward	4
RIFLEMAN	Reviewed ATP critically for infantry BCT-AIT proposed by CG, Fort Gordon, that would reduce ATC training to 12 weeks and require deferred subjects to be taught in BUT.	USCONARC	Jan 64	Dr. Ward	2
RIFLEMAN	Assisted in preparation of scripts on the Role of the Light Weapons Infantryman, I-Rifle Squad in Defense; II-Rifle Squad in Attack, for making two motion picture films.	USAIS	Jan 64	Col. Fooks (Ret.)	16

Table 3 (Continued)

Training Center Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Dute	Advisory Personnel	Time Expended (days)
Not Task- Related	Participated at Fort Polk and Fort Monroe in AIT conference to consider the Ailen report and new AIT program and to assist HQ USCONARC in developing replies to the Ailen report.	HQ USCONARC	Feb 64	Dr. Ward Dr. Bialek Dr. Caylor Dr. Hood	44
TRANSITION	Participated with BCT Div. on revision of end-of-cycle BCT pro- ficiency test, ATT 21-2. Consulted on revised ATP 21-114 and other recommendations of Ailes report.	USCONARC	Dec 63- Jun 64	Dr. Caylor Dr. Burdick Dr. Lyman	301
NCO	Implemented training program for ATC trainers.	USCONARC	Mar- Jun 64	Dr. Hood	64
Not Task- Related	Conducted high level lendership studies.	USACGSC	Mar- Jun 64	Maj. Gen. Sebree (Ret.)	32.5

Table 4
Infantry Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
RIFLEMAN BASICTRAIN*	Continued from FY 63. Conducted consultations concerning the revision of ATP 7-18, course for AIT for Light and Heavy Weapons Infantrymen.	USAIS	Jul 63	Dr. Ward Col. Kelly (Ret.) Col. Fooks (Ret.) (LHRU)	14
RIFLEMAN	Participated in meetings on tactical doctrine for offense and defense at level of platoon and rifle company and assisted in preparations for making training films on Rifle Squad in Defense and Rifle Squad in Attack.	USAIS	Sep- Nov 63	Mr. Powers Col. Kelly (Ret.)	1.5
RIFLEMAN V	Provided assistance and materials in the development of a land navigation training circular which in turn supported the development of MOS 111 and 112 Subject Schedules.	USCONARC	Sep 63- Jan 64	Mr. Powers	16.5
RIFLEMAN V	Conducted consultations in preparation for and review of land navigation training film TF 7-3360, "Land Navigation by Termin Features," written into the 18-hour POI compiled by IHRU and Map Reading Committee.	USAIS	Sep- Feb 64	Mr. Powers	3
RIFLEMAN V	Evaluated a demonstra- tion at Fort Gordon of the implementation of the advanced land navi- gation program.	USAIS	Nov 63	Mr. Powers	2
Not Task- Related	Consulted on the human factors considerations in the selection of top priority infantry material requirements.	USACDCIA	Aug 63	Mr. Powers	1.5

*Completed Tank.

Table 4 (Continued)
Infantry Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Critically reviewed draft report, "Study to Conserve the Energy of the Infantryman," and attended conference for discussion of recommendations made.	USACDCIA	Aug- Sep 63	Col. Kelly (Ret.)	2
Not Tack- Related	Prepared and delivered an invited address on motivation.	U.S. Naval Inst. of Ind. Rel.	Sep 63	Dr. Olmstead	5
Not Task- Related	Analyzed Leadership Analysis Questionnaire.	USACGSC	Sep- Oct 63	Dr. Jacobs	15
LEAD	Consulted on leadership training and PI research. Included seminar on PI for 30 to 40 people and discussed building a research capability at West Point for which Unit would provide continuing TAS. Later, leadership course material was furnished Unit for review as comments furnished West Point.		Jan- May 64	Dr. Lange Dr. Jacobs	28.5
Not Task- Related	Acted an adviser to Project LASER during demonstration by industrial firm. Critically reviewed classified document. Standby consultant for continued participation.	USACDCIA	Sep 63- Jan 64	Mr. Powers	1.5
Not Tesk- Related	Participated in Ad Hoc Committee assigned to study the problem of the organization proposed for infantry squad, pla- toon, company, battalion, and brigade using wesp- ons and equipment available in FY 67.	CG USAIC	Jan- Apr 64	Col. Kelly (Ret.) Dr. Jacobs	15.5

Table 4 (Continued)
Infantry Human Resparch Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advinory Personnel	Time Expended (days)
Not Tank- Related	Reviewed and com- mented on draft manual "Tactical Employment of the M60 Machinegun" prepared by Weapons Dept., USAIS.	Weapoan Dept., USAIS	Jan 64	Col. Kelly (Ret.)	2
Not Task- Related	Participated in confer- ence to give guidance to USABRL, and infor- mation on rifle targets in combat, and to develop realistic, com- prehensive tests of small arms including SPIW.	USAGDCIA, USABRL	Mar 64	Col. Kelly (Ret.)	1.5
Not Task- Related	Consulted on the human factors implications in the use of night viewing and surveillance devices to be used in the preparation of an annex to a classified document.		Mar- Apr 64	Dr. Jacobe Mr. Powers	5
Not Task- Related	Addressed Middle Man- agement Workshop on "Organizational Cli- mate and Motivation."	Civilian Personnel Sec., USAADCEN	Jun 64	Dr. Olmstead	1.5
Both Task- Related and Not Task- Related	Conducted consultations (18 of one day or less) concerning technical, tactical, satistical, and human factors problems; reviews of druft papers, rating systems, and plans of test; and so forth.	Agencies assisted were mainly those of USAIS but also included USACDCIA, 82nd Airborne Division, USAIC Allied military, and industry.	jul 63- jun 64	All professional staff partici- pated in one or more	12

Table 5 Air Defense Human Research Unit

Tank or Activity	/ Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Prepared Consulting Report on the determi- nation of minimum math skills required for Basic Electronics.	USAADS	Jul 63	Dr. Cox Mr. Montgomery	42
LOCK-ON*	Reviewed, on formal request, training circulars and Army subject schedules concerned mainly with implementation of Task LOCK-ON principles in Hawk and Hercules systems.	USAADS	Jul 63- Feb 64	Dr. Melching	35
Not Task- Related	Reviewed, on formal request, specifications for task and skill anal- ysis and training aids feasibility study.	USAADS	Aug 63	Dr. Rogers	4.5
MAINTRAIN**	Reviewed training aid - job aid proposal made by Republic Aviation Corp.	USAADS	Jan 64	Dr. Rogers	2
Not Task- Related	Determined extent to which a fire direction aystem operator may become confused when required to learn a second set of symbols with new or altered meanings; prepared Consulting Report.	USAADS	Den 63- Mar 64	Dr. Bergum Mr. Burrell	202
VIGIL	Developed plan of test to implement TR 85 on HAWK equipment.	USAADS, USCONARC	Mar- Apr 64	Dr. Baldwin Mr. Wright	16
Not Task- Related	Addressed Middle Men- agement Workshop on "Management Resources and Processes."	Civilian Per- sonnei Sec., USAADCEN	Apr 64	Mr. Montgomery	3
Not Task- Related	Reviewed and com- mented on first and second drafts of TC 44-9, "Nike Hercules Fire Con- trol Platoon Training Guide."		May 64	Dr. Melching	2

Total Services

^{*}Completed Tank,
**Tank not in FY 64 Work Program.

Table 5 (Continued)

Air Defense Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Reviewed and com- mented on draft POI for Digital Funda- mentals Training Course	USAADS	May 64	Dr. Baldwin Dr. Rogers	1
Not Tank- Related	Reviewed and com- mented on "Haman Engineering Guide to Equipment Design."	Office of Naval Research	May 64	Dr. Baldwin Dr. Rogers Mr. Frederickson	2
Not Task- Related	Conducted study of backward chaining to determine effect of presenting instruction in reverse order for fixed procedural tasks.	DCSIT, USCONARC	May- Jun 64	Dr. Cox Mr. Boren Dr. Baldwin Dr. Melching	´50

Table 6
Aviation Human Research Unit

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Continued from FY 63. Further evaluated Avia- ion Training Device 2-B-12A in revised pro- totype form.	USAAVNTBD; NTDC	Jul- Sep 63	Dr. Prophet Mr. Boney Dr. Caro Maj. Haid	18
Not Task- Releted	Conducted consultation evaluating a device. "Radiological Aerial Survey Simulation System" (RADASSIS), in the invention stage for use in the radiological survey course. Since basic problems in training are navigational, further development was not recommended.	ZAVAAZU ,KOĐ	Sep 63	Dr. Boyles Mr. Boyd	1
Not Task- Related	Conducted feasibility study concerning development of selection procedures for the students entering the Mohawk (AV-1) Gunnery Training Course.	DOI, USAAVNS	Oct 63	Dr. Dawkins	28
Not Task- Rolated	Assisted in making a human factors evaluation of the Sikorsky S-64 Flying Crane at Fort Benning.	USAAVNTBD	Nov 63	Mr. Boyd Dr. Wright	
Not Task- Related	Developed a question- naire, rating scale, and statistical analysis of data, and provided pay- chometric ratings of LOH muintenance mechanics.	USAAVNTBD	Dec 63- Jan 64	Mr. Pauley Dr. Gray	26
Not Task- Related	Conducted consultation and instruction on the determination of behavioral objectives in connection with USCONARC directive for maintenance POIs involving 2200 hour of instruction.	:	Jan 64	Dr. Dawkins	1

Table 6 (Continued)

Aviation Human Research Unit

Tank or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
LOWENTRY	Conducted consultation on problems of low altitude navigation. Included obtaining a presentation by R.E.F. Lewis, Canadian Defence Research Lab., covering relevant	Dept. of Tactics, USAAVNS	Feb 64	Maj. Haid Dr. Prophet Dr. Wright Dr. Gray Mr. Waller Mr. Pauley	4
LIFT* INTACT**	Conducted presentation on the subject of flight proficiency measurement to instructor personnel and students of the Standards Div. Dept. of Advanced Fixed King Training.	USAAVNS	Apr 64	Dr. Prophet	1
Not Task- Related	Participated in the preparation and review of the USAAVNTBD Plan of Test for the LOH and submitted a section outlining our specific activities proposed for the human factors evaluation of the LOH aircraft.	USAAVNTBD	Apr- Jun 64 (Con- tinuing)	Dr. Wright Dr. Gray Mr. Boyd Mr. Pauley Mr. Jolley Mr. Waller 4 enlisted men	220
Not Task- Helated	Participated in Army Aviation Human Factors Working Group.	Army Human Factors R&D Committee	Apr. Jun 64 (Con- tinuing)	Dr. Wright Mr. Boyd Mr. Pauley	15
Not Tusk- Related	Prepared a Human Fac- tors Evaluation Report on the FD:105C Inte- grated Flight System.	USAAVNTBD	Jun 64	Dr. Wright Mr. Waller	4.5
Not Task- Related	Assisted in Terrain Avoidance Display Evaluations.	USAAVNTBD	Jun 64 (Con- tinuing)	Dr. Wright	1.5
Not Task- Related	Reviewed and submitted comments on a draft SDR for a Miniaturized Naviga- tion Diaplay for Army aviation.	USACDCAVNA	Jun 64	Dr. Weight	3.5

^{*}Gompleted Task.
**Task not in FY 64 Work Program.

Table 6 (Continued)

Aviation Human Research Unit

Tauk or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnel	Time Expended (days)
Not Task- Related	Assisted in evaluating Rudar Altimeters.	USAAVNTBD	Jun 64	Dr. Wright Mr. Boyd	1.5
Both Task- and Not Task-Related	Conducted consulta- tions (35 of one-half-day or less), reviewed technical papers, human factors evaluations, lit- erature searches, and assisted with various aviation problems.		Jul 63- Jun 64	All profes- sional staff members par- ticipated in our or more.	13

Table 7
Language and Area Training Division

Task or Activity	Nature of TAS	Requesting Agency	Date	Advisory Personnei	Time Expended (days)
CONTACT	Discussed and explained interrogation procedure used in Task CONTACT.	AKI	E6 leL	Dr. Rocklyn	0.75
Not Tank- Helated	Made critical review of a programed text, "Saleguarding Classation,"	Continental Air Command, Andrews AFB	Jul 63	Dr. Rocklyn	1.25
Not Task- Related	Reviewed experiment and advised on compo- sitios and content of report.	DLA	Jul 63	Dr. Rocklyn	2
Not Tank- Rainted	Consulted on TALOR program.	Schools Div., USCONARC	Jul 63	Dr. Rocklyn	2
COVIC	Prepared illustrations of problems in cross-cultural effectiveness as resource aids to Army instructors making lesson plans in the Civic Action/Ares training/MAAG areas.	U.S. Civil Affairn School, Fort Gordon, Ga.	Jul- Aug 63	Dr. Foster	20
Not Task- Related	Reviewed systems lit- eration and correspond- ence; studied Personnel Data Forms.	OLI, WCB	Jul- Sep 63	Dr. Leady	7
Not Task- Related	Heviewed status of statistical analyses of data obtained from DLI, WCB in connection with its otudy of the assessment of oral language proficiency of large numbers of personnel.	DEJ, WCB	Jul- Oct 63	Dr. McCrary	8
Not Tank- Helated	Consulted with USACDC personnel to aid in their planning and conduct of a survey to determine maintenance man howa available per year as related to kind of unit and other factors.		Oct 63	Dr. Brown (anninted Dr. MacCanlin of TMD)	0.5

Toble 7 (Continued)
Language and Area Training Division

Task or Activity	Nature of TAS	Requesting Agency	Date	Advinory Personnel	Time Expended (days)
Not Tank- Related	Prepared short course on "Morale and Its Measure- ment" for presentation to Victnamese officers.		Oct 63	Dr. Brown	0.5
Not Tunk- Related	Provided assistance for data collection and anal- ysis for DLI, WCB. Reviewed report supplied by DLI. Established a system for monitoring foreign language training.	DLI	Oct 63- Apr 64	Dr. Leedy Dr. Rocklyn	79
Not Task- Related	Consulted regarding the relationship between the Army Language Aptitude Test and foreign language performance. Included provision of data and plan of analysis	A KO	jan 64	Dr. Rocklyn	1
Not Tusk- Reinted	Specified language training requirements for U.S. personnel in Vietnam.	DLI	Apr- Jun 64	Dr. Fiks Ør. Hoeha	5
Not Task- Related	Assisted in devising a method for conducting a Dept. of Defense survey of foreign language training.	DLI	May- Jun 64	Dr. Leedy Dr. Hoehn	18
Not Task- Related	Planned improved pro- cedures for resolving "student load" problems, i.e., maintaining up-to- date account of students, training, and course changes.	DLI	Jun 64	Dr. Leedy	16
Not Task- Related	Consulted on factors contributing to the effectiveness of units consisting of both U.S. and Korean personnel.	HQ Eighth Àrmy, Korea	Apr- Jun 64 (Con- tinuing)	Dr. McGrary	65

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